

Sax Polymers SAXALEN PPH303G20 Polypropylene Homopolymer, 20% Glass Filled

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 20% Glass Fiber Filler

Material Notes:

SAXALEN PPH303G20 is a 20% glass filled Polypropylene - Homopolymer injection molding grade with good stiffness. Information provided by SAX Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sax-Polymers-SAXALEN-PPH303G20-Polypropylene-Homopolymer-20-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	
Melt Flow	11 g/10 min @Load 2.16 kg, Temperature 230 °C	11 g/10 min @Load 4.76 lb, Temperature 446 °F	from MVR; ISO 1033

Mechanical Properties	Metric	English	Comments
Tensile Strength	59.0 MPa	8560 psi	5 mm/min; ISO 527-1
Elongation at Break	3.0 %	3.0 %	5 mm/min; ISO 527-1
Tensile Modulus	4.40 GPa	638 ksi	1 mm/min; ISO 527-1
Flexural Strength	97.0 MPa	14100 psi	2 mm/min; ISO 178
Flexural Modulus	3.90 GPa	566 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m ² @Temperature -30.0 °C	2.86 ft-lb/in ² @Temperature -22.0 °F	ISO 180/1A
	8.00 kJ/m ² @Temperature 23.0 °C	3.81 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A
Izod Impact, Unnotched (ISO)	30.0 kJ/m ² @Temperature -30.0 °C	14.3 ft-lb/in ² @Temperature -22.0 °F	ISO 180/1U
	34.0 kJ/m ² @Temperature 23.0 °C	16.2 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1U
Charpy Impact Unnotched	3.30 J/cm ² @Temperature -30.0 °C	15.7 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	4.20 J/cm ² @Temperature 23.0 °C	20.0 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU

Mechanical Properties	Metric J/cm^2	English lb/in^2	Comments
Charpy Impact, Notched			ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.700 J/cm ²	3.33 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	136 °C	277 °F	80*10*4 s=60mm; ISO 75-1 a
Vicat Softening Point	130 °C	266 °F	B/120; ISO 306

Processing Properties	Metric	English	Comments
Melt Temperature	220 - 250 °C	428 - 482 °F	
Mold Temperature	40.0 - 70.0 °C	104 - 158 °F	

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